

CLAIMS

What is claimed is:

- 1 1. A method of scanning an object including the steps of:
2 moving a first scanline relative to the object in a top to bottom scan
3 direction;
4 indexing a plurality of cross linear samplings in a forward sequential
5 order;
6 moving a second scanline relative to the object in a bottom to top scan
7 direction; and
8 indexing a plurality of cross linear samplings in a reverse sequential
9 order.
- 1 2. The method of scanning an image of Claim 1 wherein the object
2 further comprises an image bearing media.
- 1 3. A method of scanning image bearing media with an optical
2 scanning device including the steps of:
3 scanning a first image bearing media in a top to bottom scan direction;
4 indexing a plurality of cross linear samplings in a forward sequential
5 order;
6 scanning a second image bearing media in a bottom to top scan
7 direction; and
8 indexing a plurality of cross linear samplings in a reverse sequential
9 order.
- 1 4. The method of scanning image bearing media of Claim 3
2 including the steps of:
3 feeding the first image bearing media from an automatic document
4 feeding device to the scanning device; and

5 feeding the second image bearing media from the automatic document
6 feeding device to the scanning device.

1 5. A method of scanning image bearing media with a flatbed
2 optical scanning device including the steps of:

3 feeding a first image bearing media from an automatic document
4 feeding device to a flatbed scanning device;

5 scanning the first image bearing media in a top to bottom scan
6 direction;

7 indexing a plurality of cross linear samplings in a forward sequential
8 order;

9 feeding a second image bearing media from the automatic document
10 feeding device to the scanning device;

11 scanning the second image bearing media in a bottom to top scan
12 direction; and

13 indexing a plurality of cross linear samplings in a reverse sequential
14 order.

1 6. The method of scanning image bearing media of Claim 5
2 including the step of sensing a carriage assembly travel direction.

1 7. The method of scanning image bearing media of Claim 5
2 including the step of sensing a carriage assembly travel limit.

1 8. An optical scanning device for producing machine-readable data
2 representative of an object comprising:

3 a scanner controller;

4 a transport assembly connected to the scanner controller for moving a
5 scanline relative to the object in a top to bottom scan direction followed by
6 moving the scanline relative to the object in a bottom to top scan direction;

7 an imaging assembly connected to the scanner controller and operable
8 in successive sampling intervals for generating a plurality of cross linear
9 samplings image data representative of the object;

10 an automatic document feeder connected to the scanner controller and
11 operable in response to the scanner controller;

12 a processing device responsive to a scan direction travel limit for
13 selectively indexing a plurality of cross linear samplings in a forward
14 sequential order; and

15 a processing device responsive to a scan direction travel limit for
16 selectively indexing a plurality of cross linear samplings in a reverse
17 sequential order.